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## INSTRUCTIONS

- Read each question carefully.
- Decide which is the correct or best answer.
- Fill in the circle in front of or below the correct answer.
- Use only an HB pencil to fill in the answer.
- Fill in only ONE circle for each question.
- If you change an answer, erase your first mark.



DO NOT MAKE

EXAMPLE 1

ANY MARKS

1. Which one of these foods is not healthy?

ON THIS PAGE

# GRADE 3 ACHIEVEMENT TEST

## Science

## June 1991

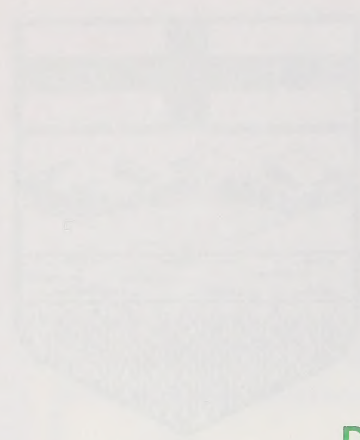
The Alberta Education  
in Calgary

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## INSTRUCTIONS

- Read each question carefully.
- Decide which is the correct or best answer.
- Fill in the circle in front of or below the correct answer.
- Use only an HB pencil to fill in the answer circle.
- Fill in only ONE circle for each question.
- If you change an answer, erase your first mark completely.

## EXAMPLES

### EXAMPLE 1

1. Which one of these foods is NOT a liquid?



The chocolate bar is not a liquid, so the circle below this picture has been filled in completely.



## EXAMPLE 2

2. Which one of these is nonliving?

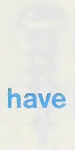


The stuffed bear is nonliving, so the circle in front of this picture has been filled in completely.

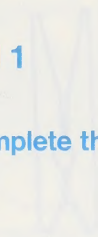
1. Which box contains objects that can ALL be attracted by a magnet?

## SECTION 1

You have 25 minutes to complete this section.



screw



clothes pin



plastic funnel



paper clip

DO NOT MAKE  
ANY MARKS  
ON THIS PAGE



plastic button



paperclip



magnet



needle

DO NOT TURN THIS PAGE UNTIL YOUR TEACHER  
TELLS YOU TO DO SO.



key



dime



broken glass

TURN THE PAGE

**DO NOT MAKE  
ANY MARKS  
ON THIS PAGE**



1. Which box contains objects that can ALL be attracted by a magnet?

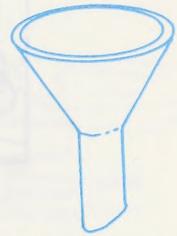
☐



screw



clothes pin



plastic funnel

☐



paper-clip



needle



plastic button

☐



safety pin

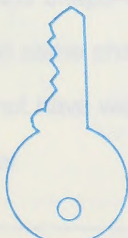


bolt



nail

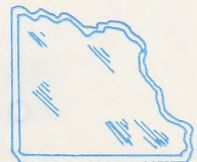
☐



key











dime



broken glass

TURN THE PAGE

2. This chart groups similar items together.





Shape	Width	Color	Texture
			
			
?	?	?	?





These items are to be placed on the chart where the question marks are.











In which order should these items be placed on the chart?

- ☐

			
---	---	---	---
- ☐

			
---	---	---	---
- ☐

			
---	---	---	---
- ☐

			
---	---	---	---



3. Look at these pictures.



Putting the jar lid under hot water loosened it because the

- ☐ glass jar expanded
- ☐ metal lid expanded
- ☐ glass jar contracted
- ☐ metal lid contracted

4. A liquid was poured into four different containers.



The liquid in the containers

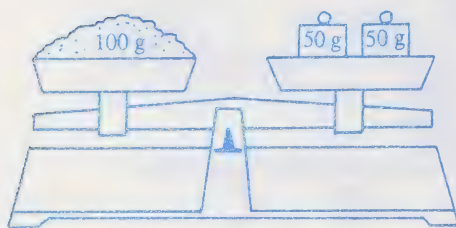
- ☐ takes the shape of the container
- ☐ has the same shape in all containers
- ☐ does not have weight
- ☐ is water

TURN THE PAGE

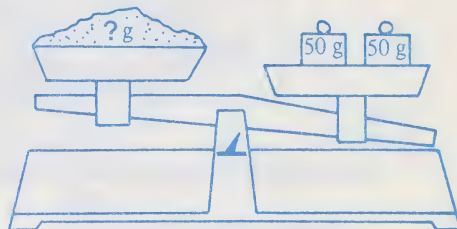
5. Janet measured 100 g of moist soil.

Next she heated the soil in an oven for 15 minutes.

She saw that the position of the pan changed when she weighed the heated soil.



before heating



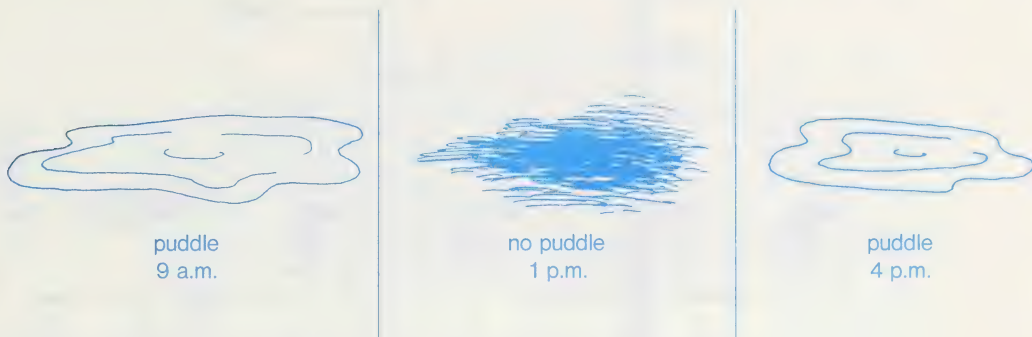
after heating

**After heating, the soil weighed about**

- ☐ 120 g
- ☐ 110 g
- ☐ 90 g
- ☐ 10 g

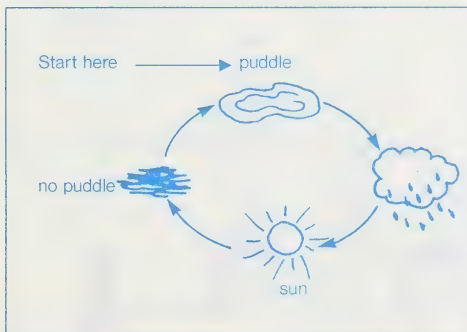


6. Monica drew a picture of the playground at different times of the same day.

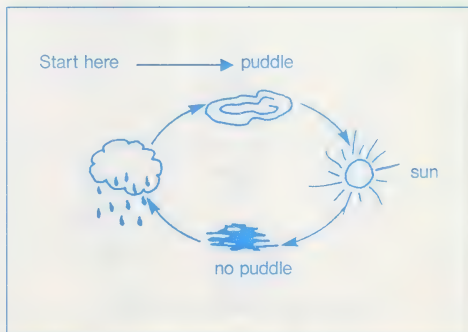


Then she drew a cycle to show what happened to the puddle.

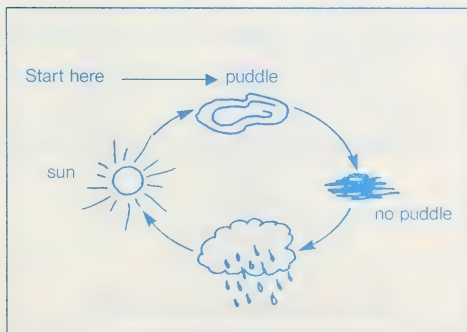
Which drawing shows the cycle Monica observed?



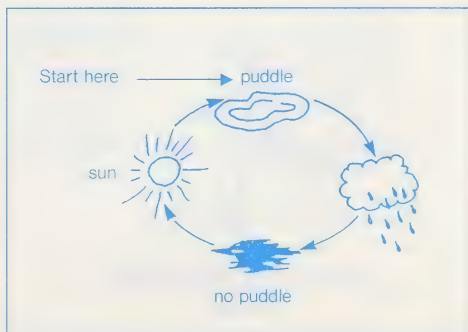
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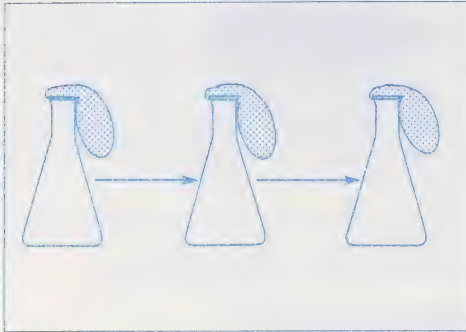
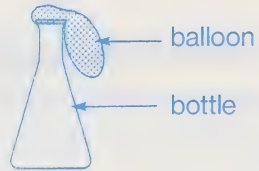
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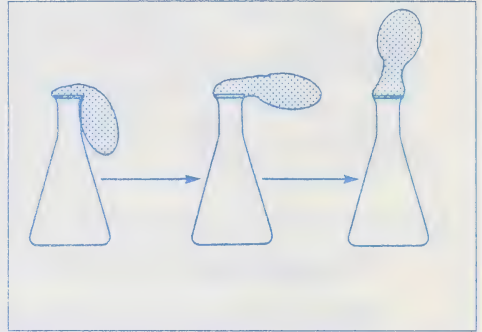
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TURN THE PAGE

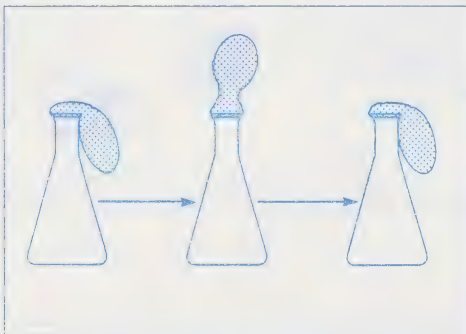
7. If the bottle is heated, what will happen to the balloon?



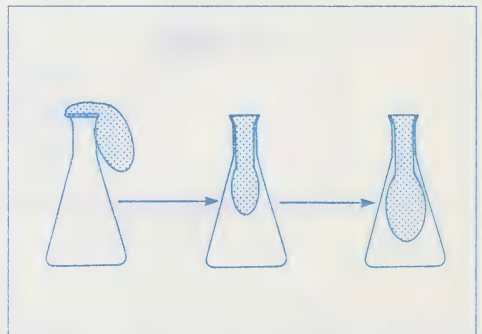
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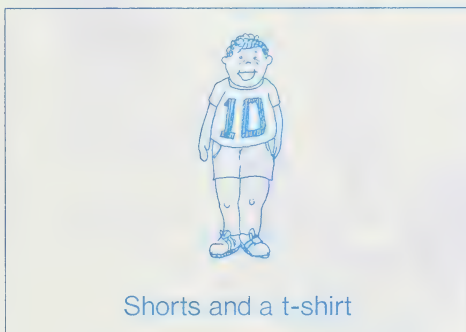
☐



8. This is the temperature today.



What would be BEST to wear outside today?



☐



☐

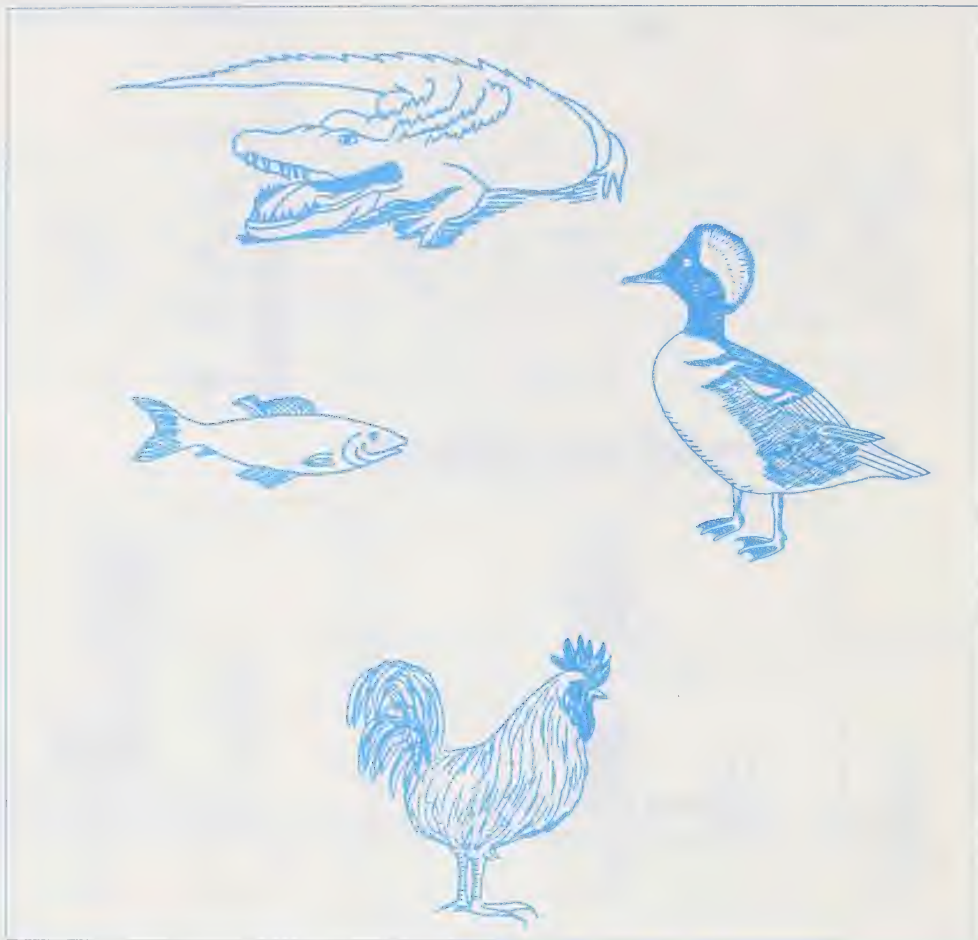


☐



☐

9. Look at these pictures.

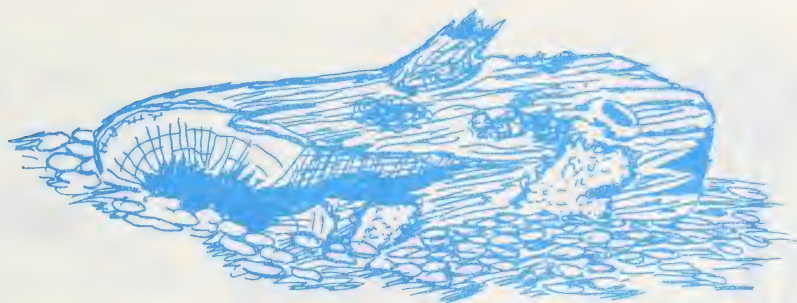


These living things are alike because they all


- ☐ live in a pond
- ☐ eat one another
- ☐ hatch from eggs
- ☐ move by using their legs




10. This is a decaying log.



Which plants would MOST likely grow on this log?




mushrooms




cattail

☐




fern

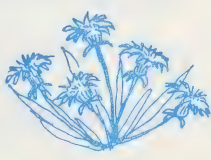


flower

☐

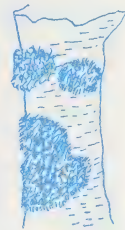


cattail




dandelion

☐



moss



mushrooms

☐

11. Look at this picture.

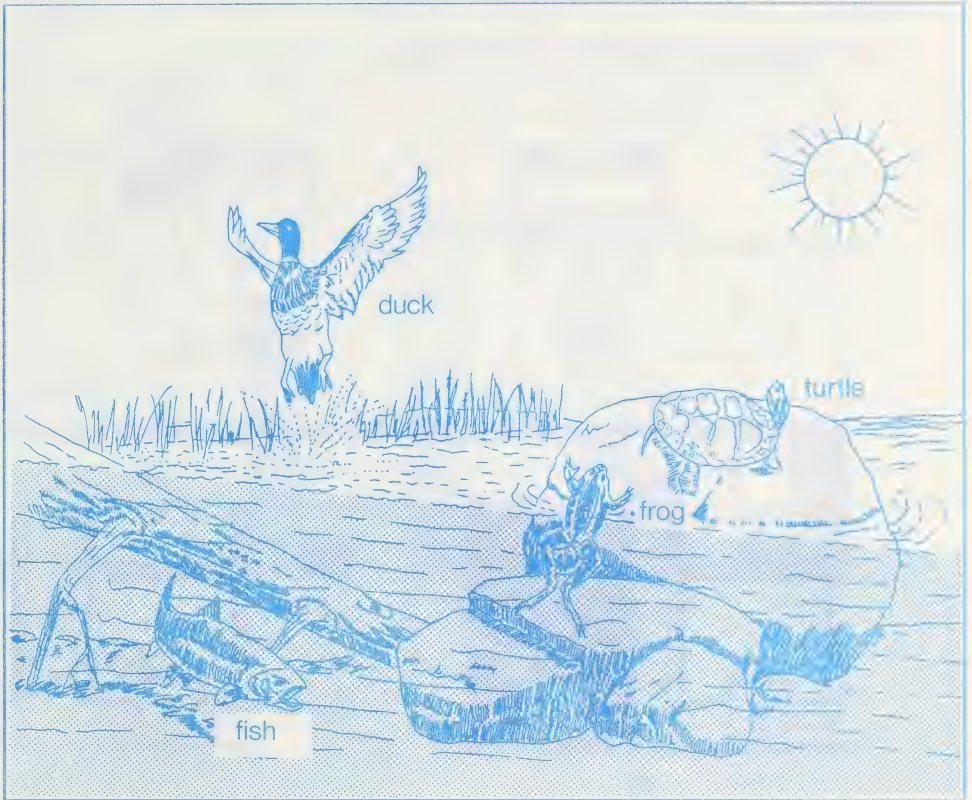


If a truckload of oil is spilled into this pond, which living thing will be **LEAST** affected?

- ☐ People
- ☐ Deer
- ☐ Birds
- ☐ Plants



12. Look at this picture.



**These animals are alike because they all**

- ☐ live in or near water and have legs
- ☐ live on land and breathe oxygen
- ☐ have a backbone and live on land
- ☐ need energy from the sun and live in or near water

**TURN THE PAGE**

13. Tom predicted that radish seeds grow better in sand than in garden soil.

In each pot, he planted six radish seeds.

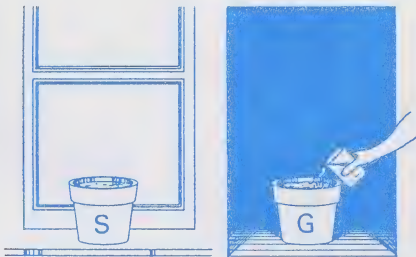


Sand

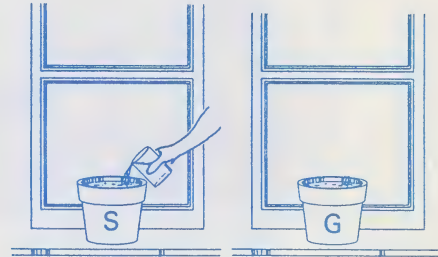


Garden soil

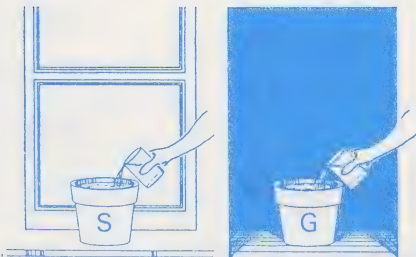
Which picture shows how Tom **SHOULD** test his prediction?



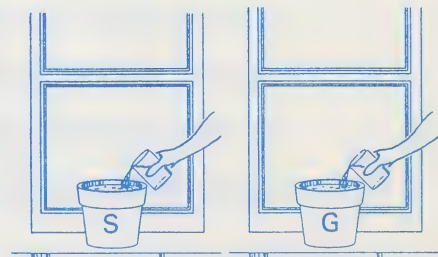
☐



☐



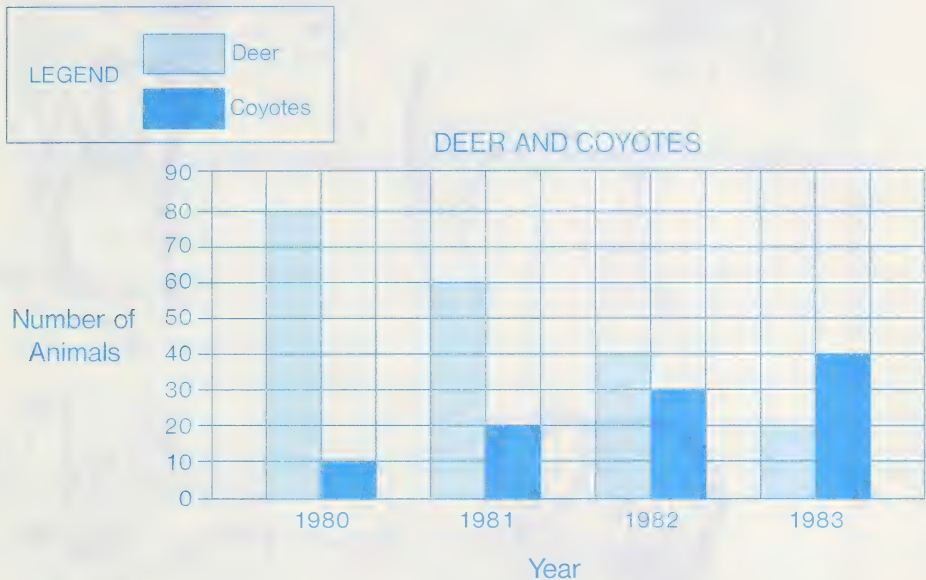
☐



☐



14. The bar graph shows the number of deer and coyotes in a forest.



Which chart shows the number of deer and coyotes in 1982?

	Deer	Coyotes
80		
70		
60		
50		
40	✓	
30		✓
20		
10		

○

	Deer	Coyotes
80		
70		
60		
50		
40		✓
30	✓	
20		
10		

○

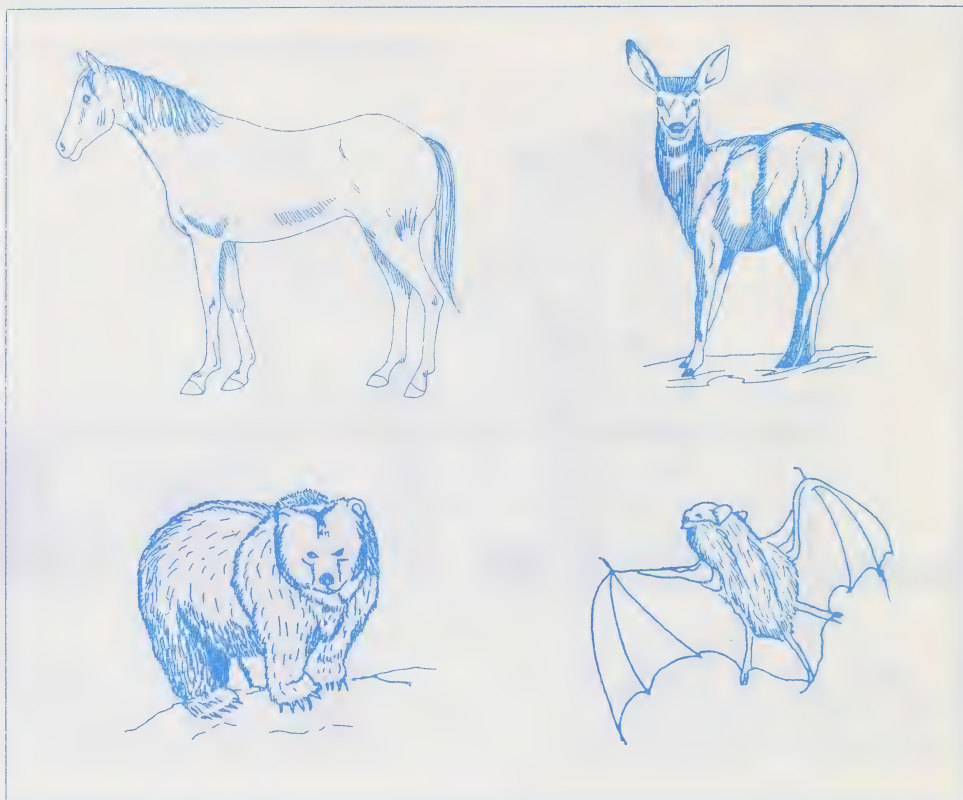
	Deer	Coyotes
80		
70		
60	✓	
50		✓
40		
30		
20		
10		

○

	Deer	Coyotes
80		
70		
60		
50		
40		
30		
20	✓	
10		✓

○

15. Look at these pictures.



These animals all

- ☐ eat meat
- ☐ hibernate
- ☐ have hair
- ☐ run quickly

16. Look at these pictures.



A



B



C



D

Which order of pictures would show a car travelling down a hill and then up a hill?

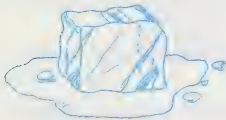
☐ B D C A

☐ B A D C

☐ A C B D

☐ A D B C

17. Which change CANNOT happen in reverse?



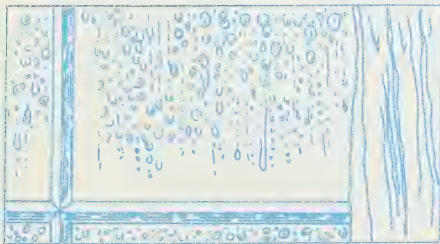
ice to water

☐



paper to ashes

☐



vapor to water

☐



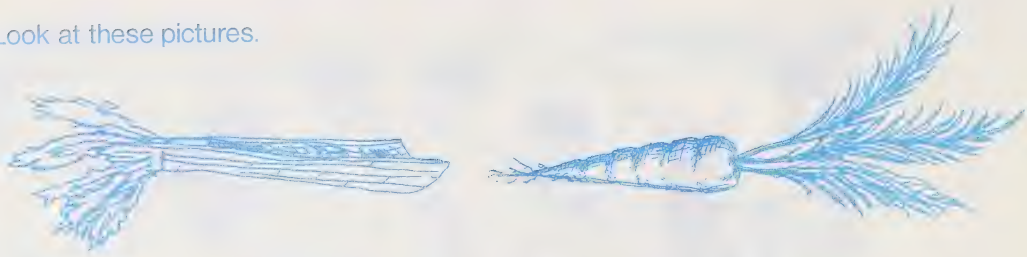
water to steam

☐

TURN THE PAGE



18. Look at these pictures.



Which senses should be used to estimate the length of these vegetables?

- ☐ Taste and touch
- ☐ Touch and smell
- ☐ Taste and sight
- ☐ Touch and sight





19. Look at this picture.



An **OBSERVATION** that can be made about this pencil is that it has

- ☐ a pointed end
- ☐ just been sharpened
- ☐ been used for writing
- ☐ a pink eraser on the end

20. Bonnie weighed four objects and then made this chart.

scissors		19 g
glue		24 g
ruler		15 g
eraser		11 g

The order of the objects from lightest to heaviest is

- ☐ eraser, glue, scissors, ruler
- ☐ scissors, ruler, eraser, glue
- ☐ eraser, ruler, scissors, glue
- ☐ scissors, glue, ruler, eraser

TURN THE PAGE

21. These boxes have space inside.



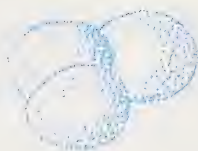
To find out which box has more space inside, which objects would be BEST to use?



rocks



cubes



cotton



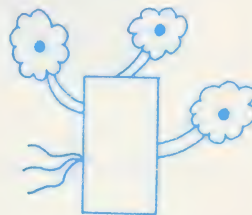
scale





22. Look at these pictures of make-believe plants.

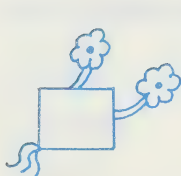
These are grunkies.



These are not grunkies.



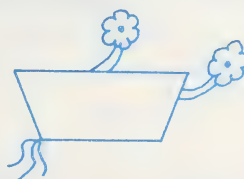
Which one of these is a grunky?



☐



☐



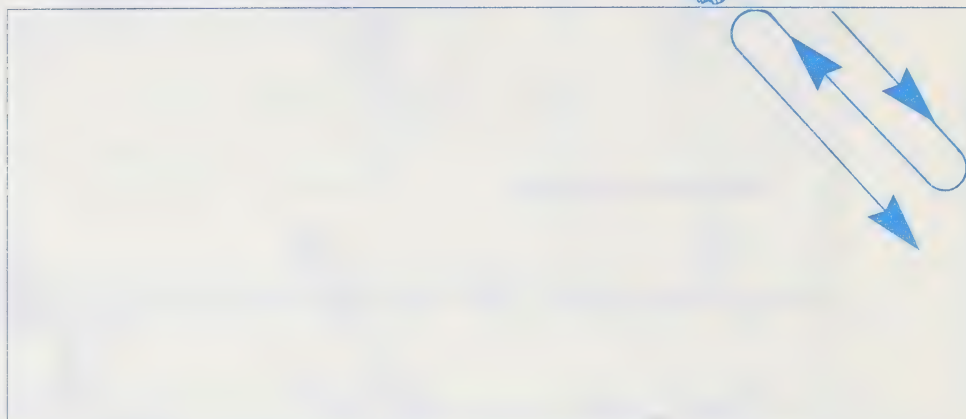
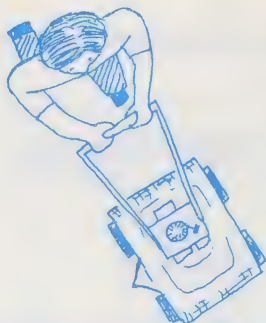
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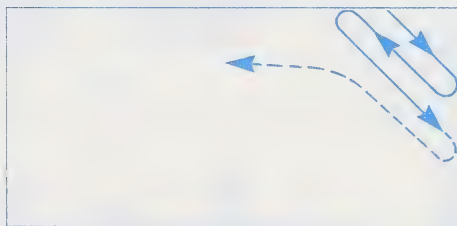
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TURN THE PAGE

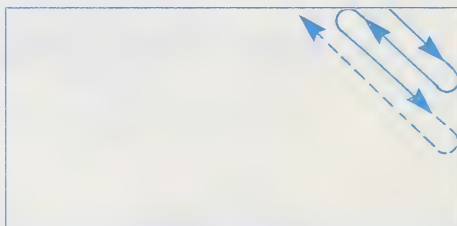
23. Garret is mowing his lawn in the pattern shown in the diagram.



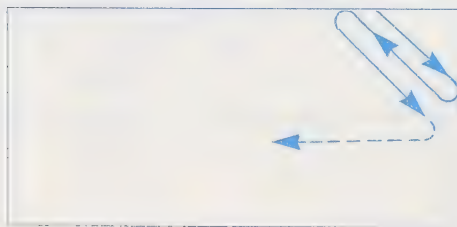
Which diagram shows where he will likely mow next?



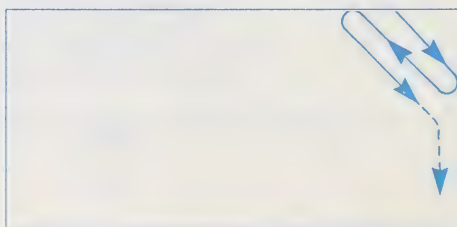
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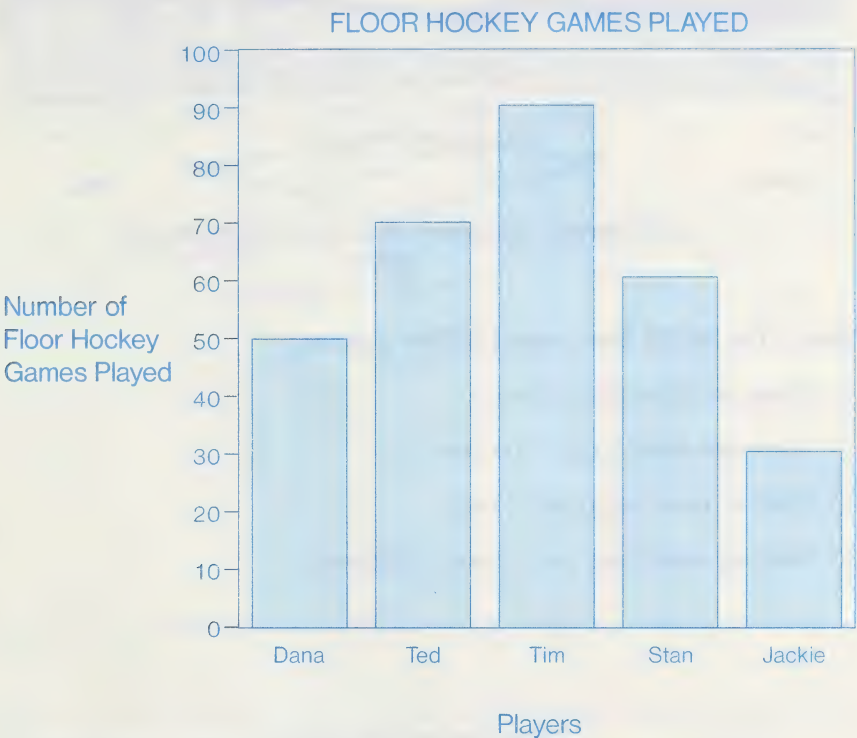


☐



☐

24. Five students recorded the number of floor hockey games each of them played in one year.

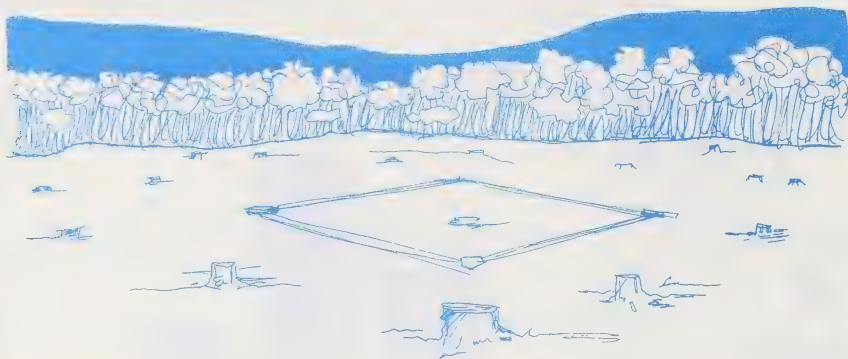


Which student played 40 more games than Jackie?

- ☐ Ted
- ☐ Dana
- ☐ Tim
- ☐ Stan



25. Some trees in an area were cut down to make room for a baseball diamond.



What is the **MOST** likely result of this change?

- ☐ There are more shady places.
- ☐ There are fewer birds in the area.
- ☐ Children have less room to play.
- ☐ More squirrels have built homes in the area.

---

**END OF SECTION 1**

**YOU MAY GO BACK AND CHECK YOUR ANSWERS TO  
QUESTIONS 1 TO 25 IN SECTION 1.**



## **SECTION 2**

**You have 25 minutes to complete this section.**

**DO NOT TURN THIS PAGE UNTIL YOUR TEACHER  
TELLS YOU TO DO SO.**

26. Which cup will keep hot water warm the longest?



glass

☐

metal

☐

styrofoam

☐

plastic

☐

---

27. Look at this picture.



Two **OBSERVATIONS** that can be made about this object are that it

- ☐ is round and soft
  - ☐ can bounce and is soft
  - ☐ is round and has lines
  - ☐ can bounce and has stripes
-



---

**28. To conserve energy, Jean could**

- ☐ turn up the heat in his house
  - ☐ leave the refrigerator door open
  - ☐ turn off all the lights when he goes to bed
  - ☐ leave the television on when he goes out to play
- 

**29. Bob measured the volume of each of five bottles. His measurements are shown in the table.**

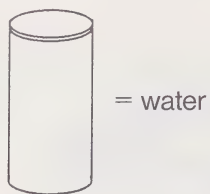
Bottle	Volume
A	14 mL
B	6 mL
C	35 mL
D	12 mL
E	20 mL

**From the table, Bob can tell that bottle D can contain more than bottle**

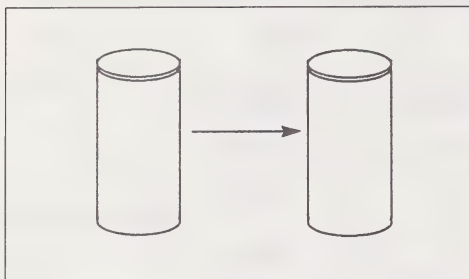
- ☐ A
  - ☐ B
  - ☐ C
  - ☐ E
- 

**TURN THE PAGE**

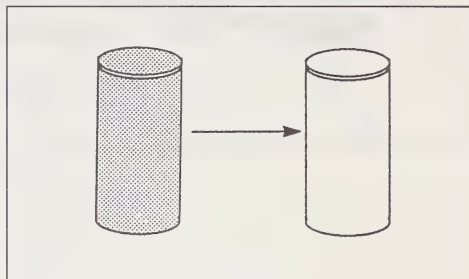
30. Cody drew a diagram using these symbols:



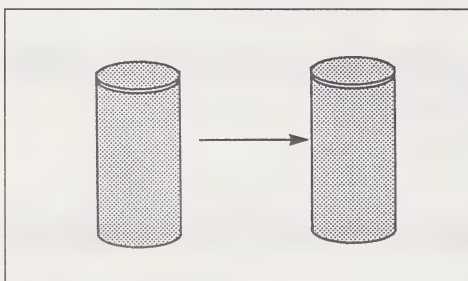
Which diagram shows a liquid that changed into a solid?



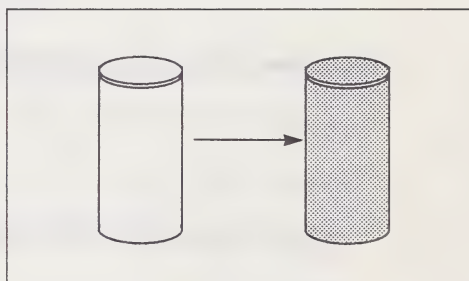
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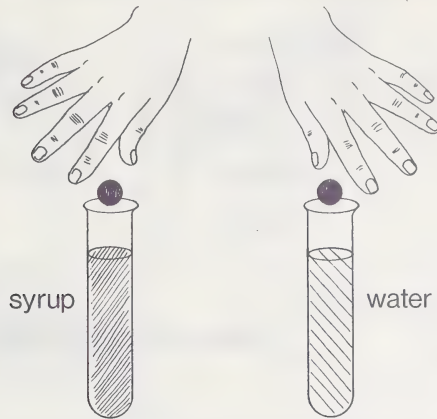


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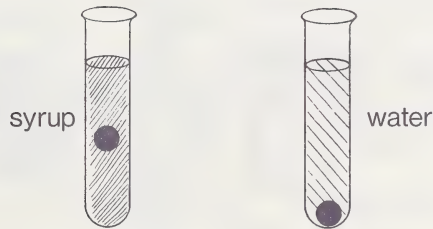


☐

31. Anne dropped two of the same kind of beads into two different liquids. She dropped the beads at the same time.



Anne observed that when one bead reached the bottom, the other bead was still falling.



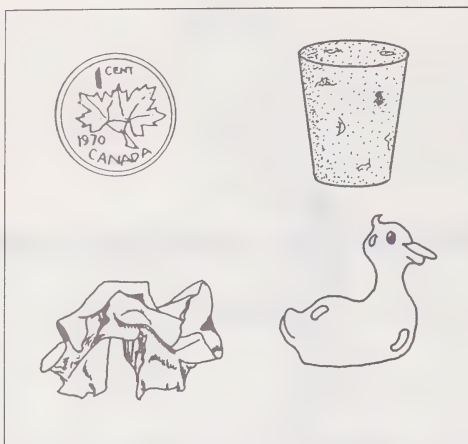
From observing, Anne should say that

- ☐ water is thicker than syrup
- ☐ syrup is thicker than water
- ☐ both beads fall at the same speed
- ☐ beads fall more quickly in syrup than in water

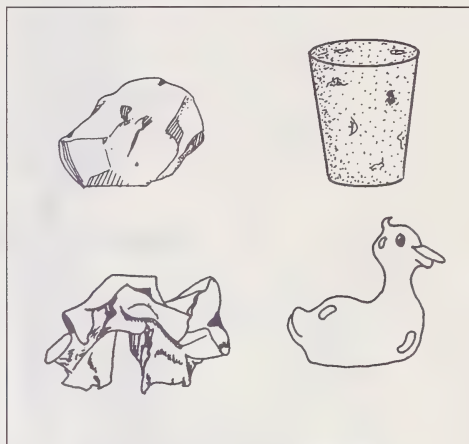
TURN THE PAGE



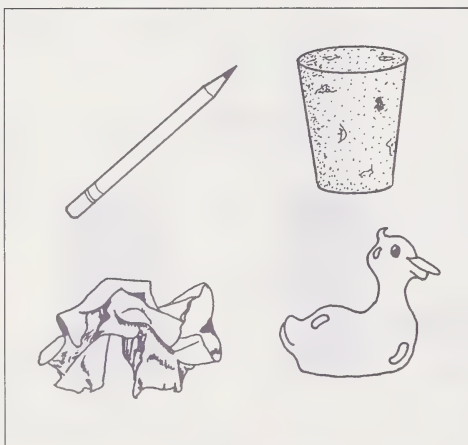
32. Which box contains objects that will ALL float?



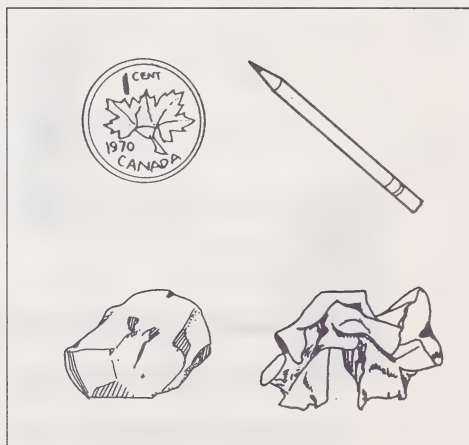
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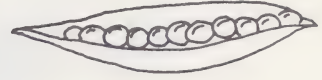
33. These foods contain seeds that are eaten.



corn



banana



peas

Which other food belongs in this group?



plum



cherry



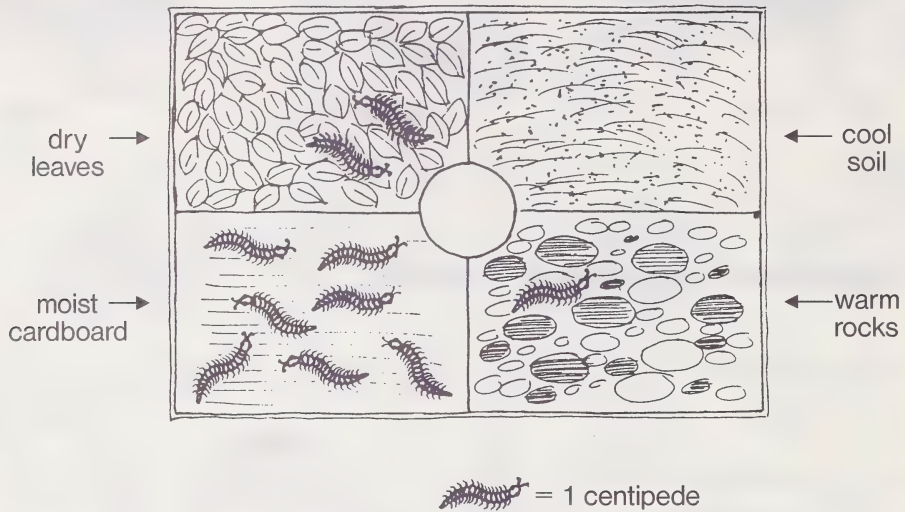
strawberry



peach



34. Roy put 10 centipedes in the centre of a box. Five minutes later, Roy drew a diagram to show where the centipedes had crawled.



From observing, Roy should say that **MOST** of the centipedes like to stay in places that are

- ☐ moist
- ☐ warm
- ☐ cool
- ☐ dry



35. Look at the chart.

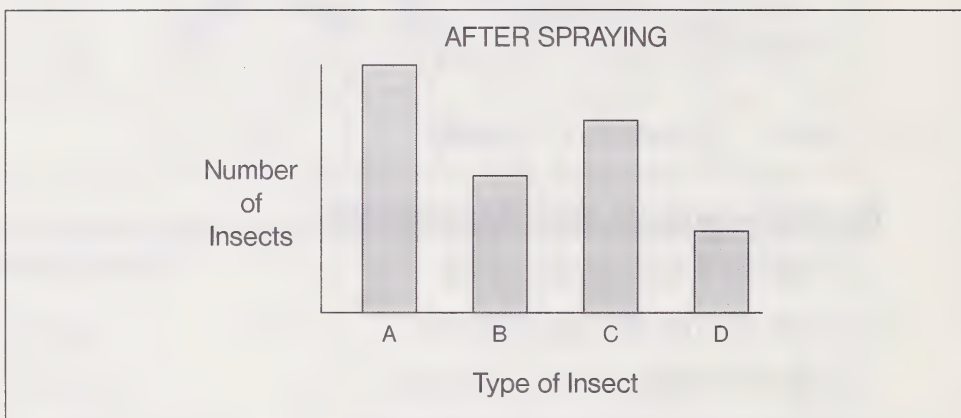
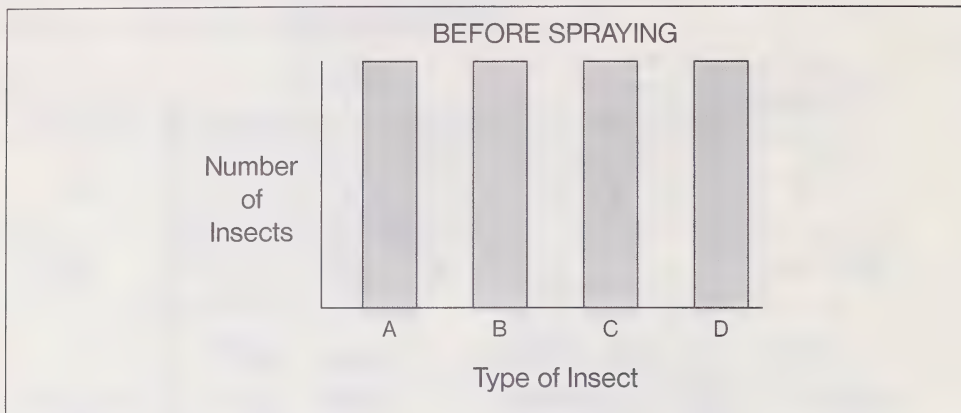
FAVORITE GAMES

Name	Games			
	Tag	Hockey	Soccer	Tee Ball
Jill	✓			✓
Tom		✓		✓
Jeff	✓		✓	
Vicki			✓	✓
Ryan		✓		✓
Sue		✓	✓	

The information in the chart shows that both

- ☐ Jeff and Sue like tag and soccer
- ☐ Tom and Vicki like tag and tee ball
- ☐ Jill and Sue like hockey and soccer
- ☐ Tom and Ryan like hockey and tee ball

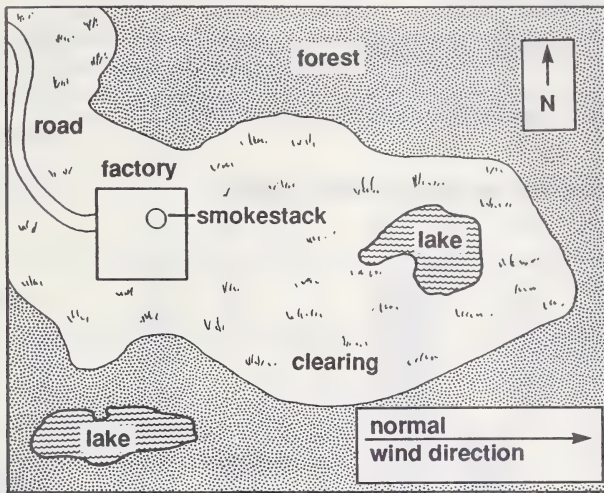
36. Look at these bar graphs.



The type of insect that is **MOST** affected by the spray is

- ☐ A
- ☐ B
- ☐ C
- ☐ D

37. A factory was built in the forest about 50 years ago. Recently, a picture of the area was taken from an airplane. The picture looked like this.



What is the **MOST** likely cause of the clearing to the east of the factory?

- ☐ Beavers cut down the trees.
- ☐ Trees do not grow around lakes.
- ☐ The factory polluted the lake.
- ☐ Air pollution killed the trees.

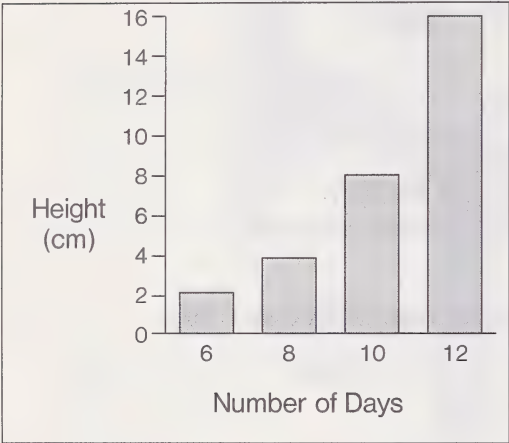
TURN THE PAGE



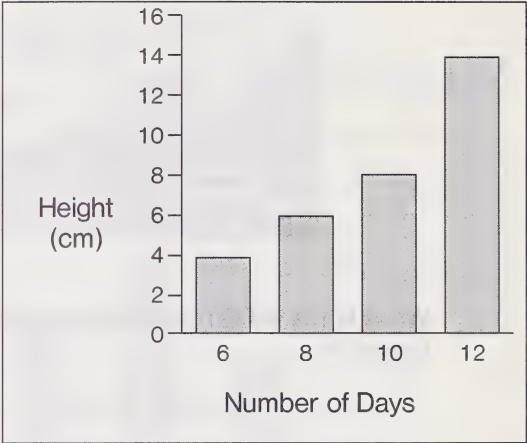
38. Ken grew a plant. He recorded this information.

Number of Days	Height (cm)
6	2
8	4
10	8
12	16

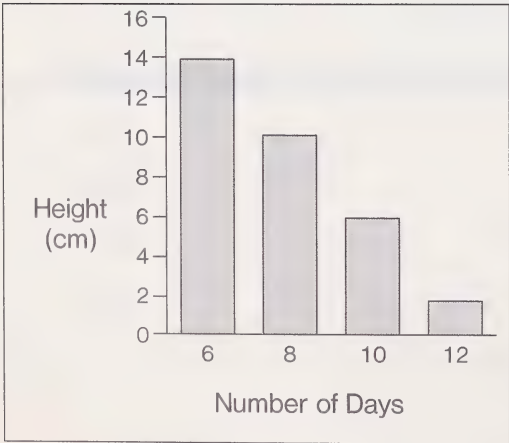
Which graph shows the growth of Ken's plant?



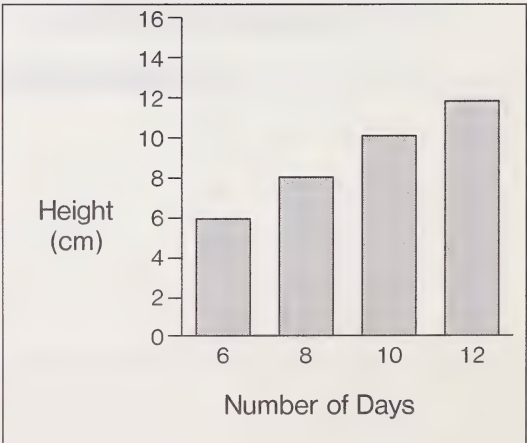
☐



☐



☐



☐

39. Look at this chart.

FACTORS THAT DIRECTLY AFFECT LIVING THINGS

Factor	Living Things				
	Fruit Flies	Mold	Plants	Frogs	People
Sunlight			✓		✓
Air	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓
Soil			✓	✓	✓
Space	✓		✓		
Milk					✓
Food	✓	✓	✓	✓	✓

The factors that are common to ALL the living things listed in the chart are

- ☐ air, water, food
- ☐ air, water, space
- ☐ water, soil, space
- ☐ sunlight, soil, food

TURN THE PAGE

40. Which group of plants and animals are found in an Alberta forest community?

☐



☐



☐



☐



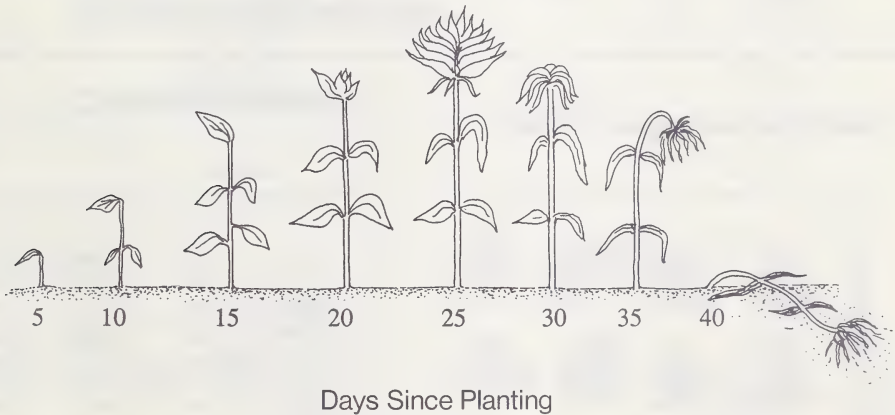


41. Potato peelings, a plastic jar, dead leaves, and a paper plate were buried in a garden.

After a year, which one will have changed the LEAST?

- ☐ Potato peelings
- ☐ Plastic jar
- ☐ Dead leaves
- ☐ Paper plate

42. Ellen drew pictures to show how her plant grew.



At 30 days, the plant began to

- ☐ die
- ☐ form leaves
- ☐ grow taller
- ☐ grow a flower

TURN THE PAGE

43. Look at these pictures.



What will come NEXT in the pattern?



☐



☐

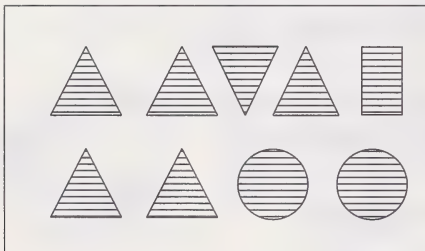


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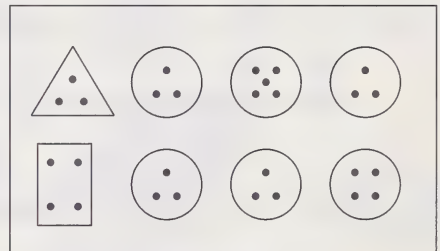


☐

44. Look at the two groups of objects.



Group A

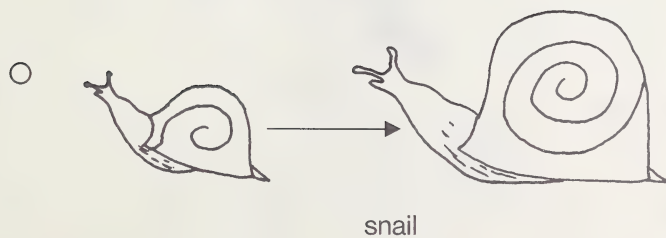
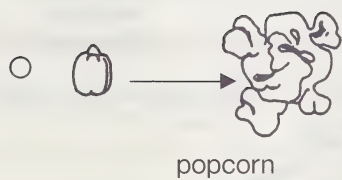
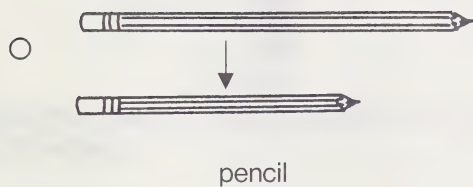
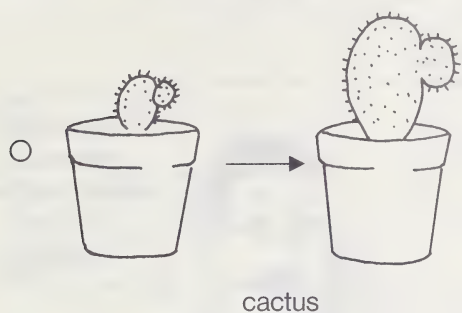


Group B

What rule was used to group the objects?

- ☐ Circles in group A, triangles in group B
- ☐ Three sides in group A, no sides in group B
- ☐ Straight sides in group A, curved sides in group B
- ☐ Striped shapes in group A, dotted shapes in group B

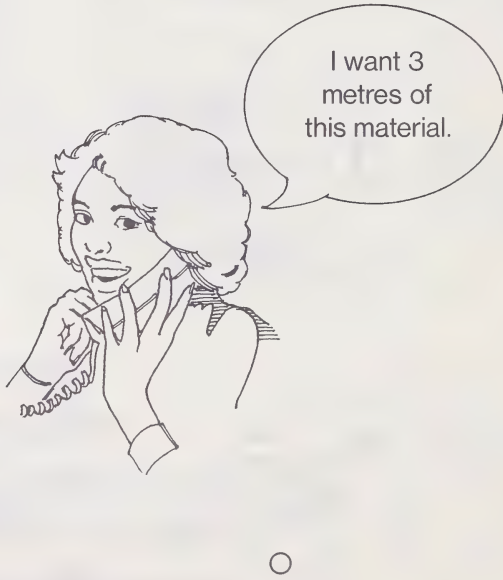
45. Which object changes in shape, size, and texture?



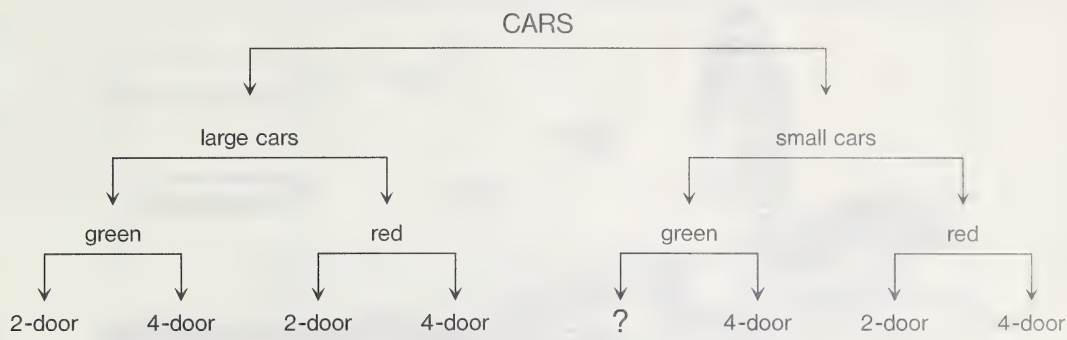
TURN THE PAGE



46. Which person will get exactly the length of material wanted?



47. Look at this chart.



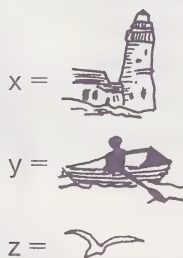
Where the question mark is in the chart, a car would be described as a

- ☐ 4-door small red car
- ☐ 4-door large red car
- ☐ 2-door small green car
- ☐ 2-door large green car

48. Look at Jhoti's picture.



Jhoti wrote a secret code to describe her picture from left to right.  
These are the letters she used:

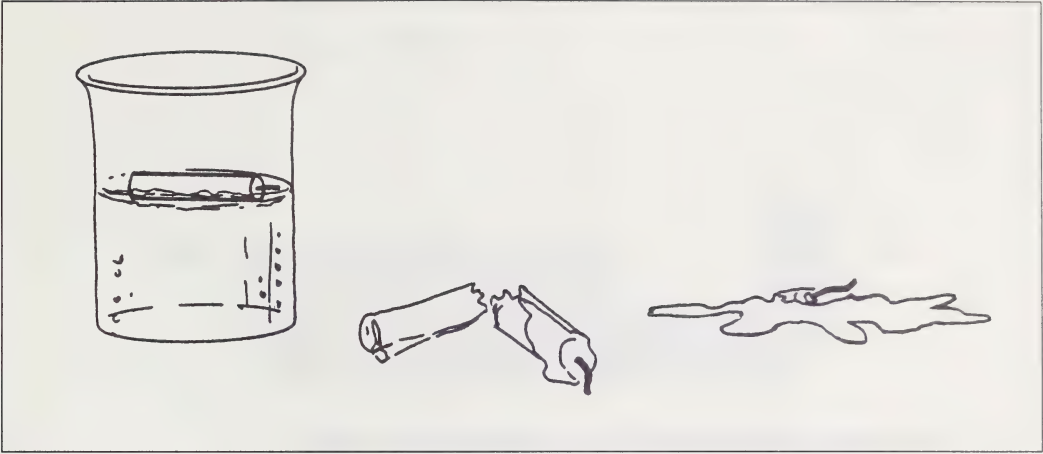


Her secret code was

- ☐ x, z, z, z, y
- ☐ y, z, z, z, x
- ☐ y, z, z, x, z
- ☐ x, z, y, z, z



49. Look at these pictures of a candle.

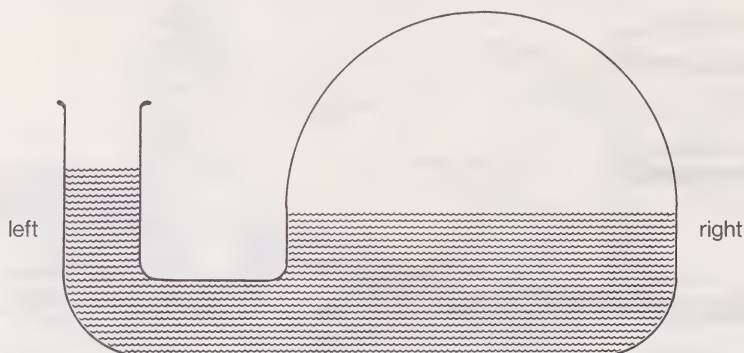


The pictures show that the candle

- ☐ sank in the water, broke, and that all of the parts melted
- ☐ floated in the water, bent, and that all of the parts melted
- ☐ floated in the water, bent, and that some of the parts melted
- ☐ floated in the water, broke, and that some of the parts melted

TURN THE PAGE

50. Suppose a container looks like this. Linda wants to fill it with water, but when she tries to, the water stops going into the container.



What could Linda do to fill the container with water?

- ☐ Raise the left side
- ☐ Lower the left side
- ☐ Add more water
- ☐ Tip it upside down

---

**END OF SECTION 2**

**YOU MAY GO BACK AND CHECK YOUR ANSWERS TO  
QUESTIONS 26 TO 50 IN SECTION 2.**



DO NOT MAKE  
ANY MARKS  
ON THIS PAGE



0	1	2	3	4	5	6	7	8	9
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0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9

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4 PROGRAM

- ☐ English
- ☐ Francophone
- ☐ French Immersion
- ☐ Other

5 LANGUAGE OF INSTRUCTION

- ☐ English
- ☐ French
- ☐ Other

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1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

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